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3125-523

8-19-99

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

3125-523

Date of Issuance:

AUG 19 1999

Term of Issuance:

Conditional

Name of Pesticide Product:

Axiom AT

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Bayer Corporation
8400 Hawthorn Road
P.O. Box 4913
Kansas City, MO 64120-0013

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

- a. Add the phrase, "EPA Reg. No. 3125-523".
- b. For future submissions assure that "DRAFT" does not appear in the background of the proposed labeling.

Signature of Approving Official:

Date:

8-19-99

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3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

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RESTRICTED USE PESTICIDE

Ground and Surface Water Concerns

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification. This product is a restricted use herbicide due to ground and surface water concerns.

**ACCEPTED
with COMMENTS**

In EPA Letter Dated:

AUG 19 1999

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide**

305-503

AxiomTM AT

DF Herbicide

ACTIVE INGREDIENTS:

Flufenacet:

N-(4-Fluorophenyl)-*N*-(1-methylethyl)-
[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]-
oxy]acetamide 19.6%

Metribuzin:

4-amino-6-(1,1-dimethylethyl)-3-
(methylthio)-1,2,4-triazin-5(4*H*)-one 4.9%

Atrazine:

6-chloro-*N*-ethyl-*N'*-(1-methylethyl)-
1,3,5-triazine-2,4-diamine 50.5%

INERT INGREDIENTS: 25.0%

100.0%

EPA File Symbol No. 3125-LEG

EPA Est. 3125-MO-1

U.S. Patent No.

Net Weight: _____ Pounds

STOP - Read the label before use.

Keep out of reach of children.

CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Obtain prompt medical aid if poisoning should occur.

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists. **If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

To Physician: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS

Atrazine is toxic to aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters or rinsate. Do not apply when weather conditions may favor drift from areas to be treated.

AXIOM AT contains the active ingredient atrazine. Atrazine can leach through soil and has been found to result in contamination of water supplies by way of groundwater. Avoid use of AXIOM AT in well drained sand to loamy sand soils, especially in those areas with high groundwater tables.

Care must be taken when using this product to prevent the following: back siphoning into wells, spills and improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

Do not allow sprays to drift on to adjacent desirable plants.

Observe all cautions and limitations on labeling of all products used in mixtures.

Ground Water: Flufenacet is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Surface Water: Flufenacet residues can contaminate surface water through spray drift. Under some conditions, they also have high potential for runoff into surface water (primarily via dissolution in runoff water or erosion), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing / loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing / loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

This product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Tile Terraced Fields Containing Standpipes

To ensure the protection of surface water from run-off through standpipes and tile outlets in terraced fields, one of the following options may be used:

- Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2 - 3 inches in the entire tile-outletted terraced field.

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Apply this product to the entire tile-outletted field under no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours following application.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

IMPORTANT: Read these entire Directions and Conditions of Sale before using AXIOM AT Herbicide.

CONDITIONS OF SALE OR OF DELIVERY FOR USE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS

MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

GENERAL INFORMATION

AXIOM AT is a selective herbicide for control of many important annual grasses and broadleaf weeds in field corn and corn grown for silage. AXIOM AT is formulated as a 75% water dispersible granule (DF). AXIOM AT may be used in either conventional, conservation or no-tillage crop management systems and may be applied preplant surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence. AXIOM AT will provide its most effective weed control when applied and subsequently moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence. AXIOM AT has multiple modes of actions: inhibition of protein synthesis/cell division and inhibition of photosynthesis.

AXIOM AT may be applied using either water or sprayable grade fluid fertilizer as a liquid carrier or may be impregnated on dry bulk fertilizer.

AXIOM AT may be applied either alone or in tank mix combination with additional herbicides. When tank mixing, always observe all precautionary statements and limitations on labeling of all products.

GENERAL USE RESTRICTIONS

AXIOM AT is intended for use on field corn for grain or silage. Do not use on popcorn, sweetcorn, white corn or corn grown for seed.

Do not apply this product through any type of irrigation system.

Do not apply aerially.

Do not apply more than 4.4 pounds AXIOM AT per use season.

Do not apply AXIOM AT or AXIOM AT tank mixtures when environmental conditions may favor drift to non-target sites.

This product may not be applied within 66 feet of the points where field surface water run-off enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or set-back from run-off points must be planted to crop or seeded with grass or other suitable crop.

Avoid spray overlap, as crop damage may result.

If the corn crop treated with AXIOM AT is lost, only corn may be replanted immediately. Do not make a second application of AXIOM AT.

RATE SELECTION/SOIL TEXTURE

The recommended rates of AXIOM AT are defined by texture and organic matter content of the soil being treated. Unless a specific soil texture is mentioned, rate tables throughout this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your Bayer Corporation representative, the Cooperative Extension Service or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil textural grouping:

COARSE	MEDIUM	FINE
Sand Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

MIXING INSTRUCTIONS

LIQUID CARRIERS:

AXIOM AT is a dry flowable herbicide that must be mixed in water or sprayable fluid fertilizer. Compatibility of AXIOM AT or its labeled tank mix products with these liquid carriers should always be predetermined prior to spraying. Refer to the SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST (Appendix I) of this label to determine product compatibility in fluid fertilizer carriers.

Before mixing AXIOM AT and its labeled tank mixtures, examine the spray equipment making sure it is completely free of rust and corrosion. Be sure the equipment is free of any residues from previously used pesticides. Flush the lines with clean water or recommended detergents after the last application. Use an approved method for disposing of rinsate.

The proper mixing sequence for AXIOM AT and recommended tank mixtures with the appropriate liquid carrier is as follows:

1. Fill the spray tank or nurse tank 1/4 full with the appropriate liquid carrier.
2. Start the recirculation and agitation system and continue throughout mixing and application.
3. If the compatibility test indicates the need of a compatibility agent, add the recommended amount to the spray tank.
4. If ammonium sulfate is to be used, add it now. Next add the recommended quantity of AXIOM AT (add directly if water or sprayable grade nitrogen fertilizers (28-0-0, 34-0-0) are the carriers; for other sprayable grade fertilizers, first check compatibility and then either mix directly or preslurry in water depending on the results of the compatibility test.
5. If tank mixing with wettable powders or other dry flowable products, make a slurry of the products with water and add the slurry slowly to the spray tank.
6. If tank mixing with emulsifiable concentrates or soluble products, add the products to the spray tank.
7. If tank mixing with Gramoxone Extra®, a glyphosate containing product, or Touchdown®, add the products to the spray tank.

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8. If mixing spray adjuvants in the mixture, add them after all other products have been mixed.
9. Fill the spray tank to the desired level with the appropriate liquid carrier.
10. Continue agitation during transport and application until the spray tank is empty.

AXIOM AT and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture may stand before application.

DRY FERTILIZER CARRIERS:

AXIOM AT may be impregnated or coated on dry bulk fertilizers for application. Refer to Appendix II of this label for details.

APPLICATION INFORMATION

SPRAYER APPLICATION

Ground Broadcast Treatment: Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply AXIOM AT and the labeled tank mixtures in a minimum of 10 gallons of total spray volume per acre using broadcast boom equipment. Use a pump with capacity to maintain 30 to 40 psi at the nozzles, maintain adequate in-tank agitation to keep the spray mixture in suspension and provide a minimum of 20% bypass at all times. Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by the tank mix product or 10 gallons, whichever is greater. The use of screens to protect the pump and nozzles is recommended. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Refer to the nozzle manufacturer for additional recommendations. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

Band Treatment: AXIOM AT and the labeled tank mixtures may be applied as a band treatment. Use the following formula to calculate the amount of herbicide needed for band treatments:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast rate}}{\text{per acre}} = \frac{\text{Band rate}}{\text{per acre}}$$

DRY FERTILIZER APPLICATION

Apply using a minimum of 200 lb of dry fertilizer per acre. See Appendix II for additional details.

APPLICATION METHODS AND TIMINGS

AXIOM AT may be applied either alone or in tank mixtures with or sequentially with certain other registered and recommended herbicides. Applications may be made preplant surface, preplant incorporated or preemergence. Do not apply when environmental conditions favor drift.

Preplant Surface: For use in conservation, minimum or no-tillage crop production systems, AXIOM AT alone or as a recommended tank mixture may be applied as a broadcast spray up to 45 days before planting corn. If early preplant applications are used (15 to 45 days before planting), use the highest recommended label rate for the specific soil type (Table 1). These early preplant applications are not recommended for those areas with coarse textured soils or in areas receiving in excess of 40 inches annual precipitation (rainfall/irrigation). A sequential application is recommended for applications made 30 to 45 days prior to planting, where 2/3 of the rate is applied initially and the remaining 1/3 is applied at planting. Treatments made less than 30 days before planting may use either a single or sequential application. If weeds are present at the time of application, AXIOM AT may be tankmixed with a recommended nonselective herbicide such as a glyphosate-containing product, Touchdown, or Gramoxone Extra. Observe directions for use, precautions and restrictions on the label of the nonselective herbicide. If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.

Preplant Incorporation: Apply AXIOM AT alone or in combination with recommended tank mixes as a broadcast spray and incorporate into the upper 1 to 2 inches of the soil surface up to 14 days before planting. Avoid deep incorporation since reduced weed control and/or crop injury may result. Incorporate with implements which provide uniform, shallow incorporation (Example: field cultivator, finishing disk, harrow, rolling cultivator, etc.)

Preemergence: AXIOM AT alone and its recommended tank mixes may be applied to the soil surface as a broadcast spray or band application after planting of the crop but prior to weed or crop emergence. Ensure that the seed furrow is closed prior to herbicide application or crop injury may result. If weeds are present at the time of application, apply AXIOM AT with a nonselective herbicide such as a glyphosate-containing product, Touchdown or Gramoxone Extra. Observe directions for use, precautions and restrictions on the label of the nonselective herbicide. Rainfall and/or overhead sprinkler irrigation is necessary to move AXIOM AT into the upper soil surface where weed seeds germinate. Dry weather conditions following application may reduce weed control. If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1/2 inch deep) will improve performance and minimize crop damage. Excessive rainfall or irrigation after application may reduce weed control and/or increase crop damage.

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WEEDS CONTROLLED

AXIOM AT applied at recommended dosages and application timings will control many annual grasses and broadleaf weeds

WEEDS CONTROLLED	
ANNUAL GRASS WEEDS	
Barnyardgrass	Goosegrass
Crabgrass, smooth	Johnsongrass, seedling
Crabgrass, large	Lovegrass, India
Cupgrass, southwestern	Panicum, fall
Foxtail, giant	Panicum, browntop
Foxtail, yellow	Signalgrass, broadleaf
Foxtail, green	Witchgrass
ANNUAL BROADLEAF WEEDS	
Amaranth, palmer [*]	Pennycress, field
Beggarweed, Florida	Pigweed, smooth [*]
Buffalobur	Pigweed, prostrate [*]
Carpetweed	Pigweed, redroot [*]
Chamomile spp.	Purslane, common
Chickweed, common	Pusley, Florida
Cocklebur, common [*]	Radish, wild
Dandelion, seedling	Ragweed, common [*]
Galinsoga	Ragweed, giant [*]
Henbit	Shepherdspurse
Jimsonweed	Smartweed, Penn.
Kochia [*]	Spurge, spotted
Lambsquarters, common [*]	Spurge, toothed
Mallow, Venice	Sunflower, wild
Marestail	Thistle, Russian
Morningglory, annual	Velvetleaf [*]
Mustard, wild	Waterhemp, tall
Nightshade, black	Waterhemp, common [*]
Nightshade, eastern black	

- ^{*} Control of these weeds may be erratic, especially under dry weather conditions and may require cultivation or an appropriate postemergence herbicide application for control of late season escapes.
- ^{*} Certain biotypes may have developed resistance to triazine herbicides. If weed resistance is known or suspected, use in combination or sequence with a registered non-triazine herbicide.

Following many years of atrazine use (one of the active ingredients in AXIOM AT) and products chemically related to atrazine, certain biotypes of weeds listed as being controlled by the atrazine portion of the product have been reported to develop resistance. Where resistant weed populations are

known or suspected to occur, we recommend AXIOM AT be used in combination or in sequence with registered herbicides which do not contain triazines. Consult with your local state Agricultural Extension Service for specific recommendations.

Additionally, AXIOM AT at recommended use rates will provide partial control or reduced competition of yellow nutsedge, Texas panicum, sandbur, shattercane, woolly cupgrass and sicklepod. Reduced competition weeds will be stunted in growth and/or be of reduced populations as compared to non-treated areas but control will generally not be commercially acceptable.

USE RATES

AXIOM AT may be applied alone or in tank mixture with additional registered herbicides to provide control of annual grasses and broadleaf weeds. Application rates may vary according to crop management system application timing and soil texture grouping. Rate structure for applying AXIOM AT alone are located in Tables 1 and 2.

Table 1

AXIOM AT - EARLY PREPLANT (Applications made 15 to 45 days before planting) BROADCAST USE RATES (Pounds AXIOM AT Per Acre) ^{1,2,3}			
SOIL TEXTURAL GROUP ⁴	SINGLE APPLICATION	SPLIT APPLICATION ¹	
		30 to 45 DBP ⁵	At Planting Application
COARSE	2.5 to 2.75 lb	DO NOT APPLY	
MEDIUM	2.75 to 3.5 lb ⁶	1.84 to 2.35	0.91 to 1.15
FINE	2.75 to 3.75 lb ⁶	1.84 to 2.51	0.91 to 1.24

¹ Split applications may be made less than 30 days before planting if desired.

² Use the higher AXIOM AT rate within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.

³ Do not use on peat or muck soils (soils with 20% or more organic matter).

⁴ For more information, refer to the ARate Selection/Soil Texture@ section of this label.

⁵ DBP- Days before planting

⁶ Do not exceed 3.125 lb on highly erodible soils with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. Rates of up to 3.75 lb may be used for all other applications.

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TABLE 2

AXIOM AT - PREPLANT SURFACE, PREPLANT INCORPORATE OR PREEMERGENCE (Applications made 14 days or less before planting but prior to crop emergence) BROADCAST USE RATES (POUNDS AXIOM AT PER ACRE) ^{1,2}		
SOIL TEXTURAL GROUP ³	SOIL ORGANIC MATTER CONTENT	
	Less than 3% ⁴	3% or More
COARSE	1.5 to 1.75 lb	2.0 to 2.25 lb
MEDIUM	2.0 to 2.75 lb	2.5 to 3.0 lb
FINE	2.75 to 3.0 lb	3.0 to 3.5 lb ⁴

* Do not use on coarse textured soils with <1% organic matter. Use 0.25 lb less than the lowest recommended rate if organic matter is 1.5% or less OR if applied on soils with pH levels greater than 7.4.

¹ Use the higher AXIOM AT rate within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.

² Do not use on peat or muck soils (soils with 20% or more organic matter).

³ For more information, refer to the ARate Selection/Soil Texture@ section of this label.

⁴ Do not exceed 3.125 lbs on highly erodible soil with less than 30% plant residue cover. Control of certain weed species may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. Rates of up to 3.5 lbs may be used for all other applications.

TANK MIXTURES AND SEQUENTIAL APPLICATIONS

AXIOM AT may be applied prior to, in tank mixture with, or following the use of certain registered herbicides. AXIOM AT use rates for these herbicide programs and tank mixtures are presented in Tables 1 and 2 located in the USE RATES section.

AXIOM AT contains 0.505 pounds of atrazine active ingredient (ai) per pound of product. When tankmixing or making sequential applications with atrazine- containing products, do not exceed the following total combined amounts of atrazine.

Maximum atrazine rates (ai) which may be utilized per use season.
Prior to Corn Emergence
1.6 lb ai/A - Highly erodible soils with less than 30% plant residue cover
2.0 lb ai/A - All other soils
Following Corn Emergence
2.0 lb ai/A - All soils
Prior to or after Corn Emergence
(Sequential Applications)
2.5 lb ai/A - All soils

When using tank mixtures or sequential applications with AXIOM AT, always refer to the companion product(s) label for information concerning specific use rates (unless mentioned specifically in this label), precautions and restrictions. Use in accordance with the most restrictive label limitation and precautions. This product cannot be mixed with any product containing a prohibition against such mixing.

TANK MIXTURES

AXIOM AT may be tankmixed with additional herbicides at their recommended labeled use rates (use recommended labeled use rates unless use rates are specifically mentioned below) to provide improved burndown activity or residual control of certain hard-to-control weeds such as velvetleaf, morningglories, cocklebur or giant ragweed and may be applied in either conventional, conservation tillage or no-till crop management systems. They may be applied with similar timings and methods as AXIOM AT alone unless specifically prohibited in the mix partner's product label. Three-way or multiple tank mixtures are permitted unless restricted by the product label.

Herbicides recommended for tank mixture with AXIOM AT include:

2,4-D LVE	Gramoxone Extra Horne®
Atrazine (0.5 to 1.0 lb ai/A)*	Liberty®
Balance®	Marksman®*
(3/4 oz/acre for velvetleaf)	Princep®
Banvel®	Python®
Bladex®	Roundup®
Clarity®	Roundup Ultra®
Extrazine®	Touchdown
Glyphosate	

* Atrazine containing products. Do not exceed the maximum total use rates as mentioned above.

Use the higher rate under any of the following conditions: heavy surface plant residues, heavy morningglory/cocklebur pressure, medium/fine textured soils with > 3% organic matter, no-till crop management systems.

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SEQUENTIAL APPLICATIONS

Sequential herbicide applications either before or following AXIOM AT treatments may be used at registered use rates to control additional weeds.

2,4-D	Buctril Gel®	Marksman®
Accent®	Buctril + Atrazine®*	Permit®
atrazine®	Buctril®	Poast®
Balance	Clarity	Prowl®
Banvel	Contour®*	Pursuit®
Basagran®	Exceed®	Resolve®
Basis Gold®*	Extrazine®	Resource®
Basis®	Glyphosate	Roundup Ultra
Battalion®	Gramoxone Extra	Scorpion III®
Beacon®	Hornet	Sencor®
Bladex	Laddok S-12®*	Touchdown
Bromoxynil	Liberty	Tough®
Bromoxynil + Atrazine®	Lightning	

* Atrazine containing products. Do not exceed the maximum total use rates as mentioned above.

Refer to the individual product labels for detailed explanations on use rates and directions and special precautions/restrictions.

CROP ROTATION RECOMMENDATIONS

In the event of a crop failure, only corn can be replanted immediately. If the original AXIOM AT treatment was broadcast, do not make a second application of AXIOM AT. If the original application was banded and the second crop is planted in the row middles, a second band application may be applied. Corn, sorghum, and soybeans may be planted the year following treatment. Injury may occur to soybeans planted the year following AXIOM AT application on soils having a calcareous surface layer. Do not plant sugar beets, tobacco, vegetables, spring-seeded grains or small-seeded legumes and grasses the year following application as injury may occur.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244 or contact Chemtrec at 800-424-9300.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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APPENDIX I

SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

A compatibility test is highly recommended for all applications with liquid fertilizers. Prior to mixing products in the spray tank, small quantities of each product can be mixed in proportionate quantities to evaluate compatibilities. The following test assumes a spray volume of 25 gallons per acre. If other spray volumes are to be used, adjust the appropriate amounts of ingredients. To check for compatibility, use the following procedure:

1. Add two inches of water to a one-quart jar fitted with a tight lid.
2. Add the appropriate amount of herbicide. If more than one product is used, the recommended mix sequence is the dry herbicide first, flowables next and emulsified concentrates last. For dry herbicides, add 1-1/2 level teaspoons/pound/acre use rate and for liquids add 1/2 teaspoon/pint/acre use rate.
3. Add one pint of the liquid fertilizer to the jar. Place the lid on the jar and gently shake the jar for one minute. Place the jar on a level surface and let it stand for 30 minutes.
4. Observe the mixture for signs of separation, flakes, gels, precipitates, etc. If none of these conditions occur, the mix is compatible.
5. If incompatible, use of a compatibility agent is recommended. Rerun the above test but first add a compatibility agent (1/4 teaspoon is equal to a use rate of 2 pints/100 gallons spray mix) and gently shake the jar prior to adding herbicides.
6. If the mixture is now compatible, a compatibility agent should be used in the spray mixture at its recommended rate.
7. If the mixture is still incompatible, the liquid fertilizer and herbicides should not be mixed together for use in the same spray tank.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer may be impregnated or coated with AXIOM AT for applications to corn and soybeans. Follow all AXIOM AT label recommendations, special instructions and precautions. All state regulations relating to dry bulk fertilizer blending, impregnating and labeling must also be followed.

Rates: Select the recommended AXIOM AT use rate per acre from the crop section of this label and determine the quantity of dry bulk fertilizer to be applied per acre (use a minimum of 200 pounds and a maximum of 450 pounds per acre). Use the equation below to determine the amount of AXIOM AT needed per ton of fertilizer applied.

$$\frac{\text{lbs AXIOM AT}}{\text{per Acre}} \times \frac{2000}{\text{lbs fertilizer per Acre}} = \frac{\text{lbs AXIOM AT}}{\text{per ton fertilizer}}$$

(1 lb = 16 ounces AXIOM AT)

Impregnation: AXIOM AT may be impregnated on many commonly used dry fertilizers but should not be impregnated on ammonium nitrate, fertilizers containing ammonium nitrate, potassium nitrate, sodium nitrate or powder limestone.

To impregnate AXIOM AT on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix AXIOM AT with sufficient water to form a sprayable slurry mixture. Spray nozzles must be directed to provide uniform fertilizer coverage while avoiding spray contact with mixing equipment. Nonuniform impregnation can cause crop injury or unsatisfactory performance.

Spray the herbicide mixture onto the fertilizer after blending has started. If necessary, include a suitable drying agent to ensure a spreadable herbicide impregnated fertilizer. If the fertilizer materials are excessively dusty, use diesel fuel or other suitable additive to reduce dust prior to impregnation. Apply the treated fertilizer immediately after impregnation to avoid lump formation and spreading difficulties.

Application: Accurate calibration of fertilizer application equipment and uniform fertilizer distribution is essential for satisfactory weed control. Air flow or auger metered application equipment is preferred (one pass application). If other equipment is used, the recommended application method is to apply one-half the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

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